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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/840,722	04/23/2001	Michael C. MacLeod	UTSC:607USC1	5071
David L. Parke	7590 02/12/2007		EXAM	INER
FULBRIGHT & JAWORSKI, L.L.P. Suite 2400 600 Congress Avenue Austin, TX 78701			LU, FRANK WEI MIN	
			ART UNIT	PAPER NUMBER
			1634	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
2 MONTHS		02/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
		09/840,722	MACLEOD ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Frank W Lu	1634			
	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
Period fo	•	/ 10 05T TO 5VDIDE * MONTH!	0) 50014			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Státus						
1)⊠	Responsive to communication(s) filed on 13 No	ovember 2006.				
•	· · · · <u> </u>	action is non-final.				
3)🛛	 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is 					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)⊠	Claim(s) <u>3,4,20,21,23-29,36-42,44-48,50,52-76</u>	6,85 and 86 is/are pending in the	application.			
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠	5)⊠ Claim(s) <u>3,4,20,21,23-29,36-42,44-48,50,52-76,85 and 86</u> is/are allowed.					
6)□						
7)	Claim(s) is/are objected to.					
8)[Claim(s) are subject to restriction and/or	r election requirement.				
Applicat	ion Papers					
9)⊠ The specification is objected to by the Examiner.						
10)⊠	10)⊠ The drawing(s) filed on <u>23 April 2001</u> is/are: a) accepted or b) objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119		•			
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureausee the attached detailed Office action for a list of the priorical application from the International Bureausee the attached detailed Office action for a list of the priorical	s have been received. s have been received in Applicati ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)						
	e of References Cited (PTO-892)	4) Interview Summary				
3) Infor	te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		ate atent Application (PTO-152)			
Pape	r No(s)/Mail Date	6)				

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QUAYLE ACTION

Response to Amendment

1. Applicant's response to the office action filed on November 13, 2006 has been entered.

The objections not reiterated from the previous office action are hereby withdrawn in view of the response filed on November 13, 2006.

Specification

2. The disclosure is objected to because of the following informalities: (1) RAGE 46 is a nucleotide sequence with more than 10 nucleotides in Figure 4. However, there is no SEQ ID No for RAGE 46 in the Figure 4 or BRIEF DESCRIPTION OF THE DRAWINGS and BRIEF DESCRIPTION OF THE DRAWINGS related to Figure 4 does not indicate which nucleotide sequences are SEQ ID Nos: 3-6; (2) BRIEF DESCRIPTION OF THE DRAWINGS related to Figure 8 does not indicate which nucleotide sequences are SEQ ID Nos: 7-11; and (3) there are several nucleotide sequences with more than 10 nucleotides in Table 1 (pages 32-36) and pages 53, 54, and 69. However, there are no SEQ ID Nos for these nucleotide sequences in Table 1 (pages 32-36) and pages 53, 54, and 69.

Appropriate correction is required.

Sequence Rules Compliance

3. RAGE 46 is a nucleotide sequence with more than 10 nucleotides in Figure 4 and there are several nucleotide sequences with more than 10 nucleotides in Table 1 (pages 32-36) and pages 53, 54, and 69. However, RAGE 46 is not in the sequencing listing submitted on

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November 13, 2006. Furthermore, besides nucleotide sequence CGGTGATGCATC, other nucleotide sequences in Table 1 (pages 32-36) and pages 53, 54, and 69 are not in the sequencing listing submitted on November 13, 2006. Applicant is required to resubmit a new sequencing listing on both paper copy and computer readable form in order to comply with the requirements of 37 CFR 1.821 through 1.825.

Examiner's Amendment

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. David Parker (Reg. No. 32,165) on August 24, 2006.

5. The application has been amended as follows:

In the claims:

Replace "random sequences" in line 16 in ii) of step b) of claim 1 with "random combinations".

- 38. (Currently amended) The method of claim 36, further comprising determining [at least] a [partial] nucleotide sequence of the amplified products.
- 60. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a different cell or tissue.
 - 61. (Currently amended) The method of claim 20, [performed on] the DNA molecule is

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derived from a normal cell or tissue [and on] or DNA derived from a cancerous cell or tissue.

- 62. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a cell or tissue treated with a pharmaceutical compound.
- 63. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a cell or tissue treated with a teratogenic compound.
- 64. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a cell or tissue treated with a carcinogenic compound.
- 65. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a cell or tissue treated with a toxic compound.
- 66. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a cell or tissue treated with a biological response modifier.
- 67. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a cell or tissue treated with a hormone, a hormone agonist or a hormone antagonist.
- 68. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a cell or tissue treated with a cytokine.

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69. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a cell or tissue treated with a growth factor.

70. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or the DNA derived from a cell or tissue treated with the ligand of a known biological receptor.

71. (Currently amended) The method of claim 20, [performed on] more than one sample of DNA are used, wherein the DNA samples are derived from a cell or tissue type obtained from different species.

72. (Currently amended) The method of claim 20, [performed on] more than one sample of DNA are used, wherein the DNA samples are derived from a cell or tissue type obtained from different organisms.

73. (Currently amended) The method of claim 20, [performed on] more than one sample of DNA <u>are used</u>, wherein the DNA samples are derived from a cell or tissue at different stages of development.

74. (Currently amended) The method of claim 20, [performed on] more than one sample of DNA are used, wherein the DNA samples are derived from a normal cell or tissue and derived from a cell or tissue that is diseased.

75. (Currently amended) The method of claim 20, [performed on] more than one sample of DNA are used, wherein the DNA samples are derived from a cell or tissue cultured [in vitro] *in vitro* under different conditions.

76. (Currently amended) The method of claim 20, [performed on] the DNA molecule is

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derived from a cell or tissue from two organisms of the same species with a known genetic difference.

6. The following is an examiner's statement of reasons for allowance:

Claims 3, 4, 20, 21, 23-42, 44-48, 50, 52-76, 85, and 86 are allowable in light of applicant's amendments filed on June 20, 2006, and the examiner's amendments. The closest prior art in the record is Senapathy (US Patent No. 6,521,428 B1, priority date: April 21, 1999). This prior art does not teach that the 5' sequence of primers of said first primer set population is complementary to said first linker sequence and 5' sequence of primers of said second primer set population is complementary to said second linker sequence as recited in claim 20. This prior art either alone or in combination with the other art in the record does not teach or reasonably suggest a method of subjecting a DNA molecule to a DNA synthesis reaction which comprises all of the limitations recited in claim 20. Note that "a random combinations of A, T, C, and G" in amended claim 20 is considered as all possible combinations of A, T, C, and G.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. Papers related to this application may be submitted to Group 1600 by facsimile transmission. Papers should be faxed to Group 1600 via the PTO Fax Center. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CAR § 1.6(d)). The CM Fax Center number is (571)273-8300.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank Lu, Ph.D., whose telephone number is (571)272-0746. The examiner can normally be reached on Monday-Friday from 9 A.M. to 5 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla, can be reached on (571)272-0735.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

February 2, 2007

FRANK LU PRIMARY EXAMINER